

AR TA Assays Using CV-1 Cells

Reference	Hartig et al. (2002)	Kelce et al. (1995)
Characteristics of Cell Line		
Name of cell line	CV-1	CV-1
Cell source	Monkey kidney	Monkey kidney
Transfection of Cells with Plasmids		
Stable or transient tranfection	Transient AR/Transient reporter	Transient AR/Transient reporter
AR expression vector	Ad5 hAR	pCMVhAR
AR source	human	human
Reporter vector	MMTV-Luc	MMTV.luciferase
Endpoint measured	Luciferase activity	Luciferase activity
Plasmid transfected for cell toxicity	none	none
Endpoint measured for cell toxicity	n.a.	n.a.
Preparation of Cells for Assay		
Pregrowth of cells before transient transfection	24 hours	n.p.
Time from transient transfection to treatment of cells	4 hours	24 and 48 hours
Transcriptional activation assay		
Test substance solvent	Ethanol	n.p.
No. of replicates	3 to 4	n.p.
No. of times assay repeated	n.p.	At least 4
Test substance incubation time	48 hours	53 hours
<i>Agonism assay</i>		
Reference ligand	5 -Dihydrotestosterone	n.a.
Final concentration of reference ligand	0.1 nM	n.a.
<i>Antagonism assay</i>		
Reference ligand	5 -Dihydrotestosterone	5 -Dihydrotestosterone
Final concentration of reference ligand	0.1 nM	0.1 nM

Abbreviations: n.a. = not applicable;
n.p. = not provided

AR TA Assays Using CV-1 Cells

Reference	Kemppainen and Wilson (1996)	Kemppainen et al. (1992)
Characteristics of Cell Line		
Name of cell line	CV-1	CV-1
Cell source	Monkey kidney	Monkey kidney
Transfection of Cells with Plasmids		
Stable or transient transfection	Transient AR/Transient reporter	Transient AR/Transient reporter
AR expression vector	pCMVhAR	pCMVhAR
AR source	human	human
Reporter vector	MMTV-Luc	pMTV29VTM
Endpoint measured	Luciferase activity	CAT activity
Plasmid transfected for cell toxicity	none	none
Endpoint measured for cell toxicity	n.a.	n.a.
Preparation of Cells for Assay		
Pregrowth of cells before transient transfection	n.p.	24 hours
Time from transient transfection to treatment of cells	n.p.	n.p.
Transcriptional activation assay		
Test substance solvent	n.p.	n.p.
No. of replicates	n.p.	n.p.
No. of times assay repeated	At least 3	At least 6
Test substance incubation time	30 hours	n.p.
<i>Agonism assay</i>		
Reference ligand	5 α -Dihydrotestosterone	Methyltrienolone
Final concentration of reference ligand	n.p.	n.p.
<i>Antagonism assay</i>		
Reference ligand	5 α -Dihydrotestosterone	Methyltrienolone
Final concentration of reference ligand	0.1 nM	n.p.

Abbreviations: n.a. = not applicable;
n.p. = not provided

AR TA Assays Using CV-1 Cells

Reference	Kemppainen et al. (1999)	Lambright et al. (2000)
Characteristics of Cell Line		
Name of cell line	CV-1	CV-1
Cell source	Monkey kidney	Monkey kidney
Transfection of Cells with Plasmids		
Stable or transient transfection	Transient AR/Transient reporter	Transient AR/Transient reporter
AR expression vector	pCMVhAR	pCMVhAR
AR source	human	human
Reporter vector	MMTV-Luc	MMTV-Luc
Endpoint measured	Luciferase activity	Luciferase activity
Plasmid transfected for cell toxicity	none	none
Endpoint measured for cell toxicity	n.a.	n.a.
Preparation of Cells for Assay		
Pregrowth of cells before transient transfection	24 hours	n.p.
Time from transient transfection to treatment of cells	4 hours	24 and 48 hours
Transcriptional activation assay		
Test substance solvent	n.p.	n.p.
No. of replicates	n.p.	n.p.
No. of times assay repeated	At least 3	n.p.
Test substance incubation time	4 hours	5-6 hours
<i>Agonism assay</i>		
Reference ligand	5 α -Dihydrotestosterone	n.a.
Final concentration of reference ligand	n.p.	n.a.
<i>Antagonism assay</i>		
Reference ligand	5 α -Dihydrotestosterone	5 α -Dihydrotestosterone
Final concentration of reference ligand	0.1 nM	0.1 nM

Abbreviations: n.a. = not applicable;
n.p. = not provided

AR TA Assays Using CV-1 Cells

Reference	Van Dort et al. (2000)
Characteristics of Cell Line	
Name of cell line	CV-1
Cell source	Monkey kidney
Transfection of Cells with Plasmids	
Stable or transient tranfection	Transient AR/Transient reporter
AR expression vector	mouse AR (not defined)
AR source	mouse
Reporter vector	pSV2-CAT
Endpoint measured	CAT activity
Plasmid transfected for cell toxicity	none
Endpoint measured for cell toxicity	n.a.
Preparation of Cells for Assay	
Pregrowth of cells before transient transfection	n.p.
Time from transient transfection to treatment of cells	n.p.
Transcriptional activation assay	
Test substance solvent	n.p.
No. of replicates	n.p.
No. of times assay repeated	3
Test substance incubation time	n.p.
<i>Agonism assay</i>	
Reference ligand	5 α -Dihydrotestosterone
Final concentration of reference ligand	n.p.
<i>Antagonism assay</i>	
Reference ligand	n.a.
Final concentration of reference ligand	n.a.

Abbreviations: n.a. = not applicable;
n.p. = not provided